

Substitute Specification

ABSTRACT OF THE DISCLOSURE

The automatic regenerable cold/hot water softener includes a water softening tank having ion exchange resin and a regenerating tank filled with regenerating substance of the ion exchange resin. The water softener controls the mode for receiving raw water and discharging soft water using one switching valve, a direct water mode for discharging raw water itself, a regeneration mode for regenerating ion exchange resin, and a intermittence mode for intermitting the inflow and outflow of the raw water and the soft water. The precise regeneration time is judged according to used amount of the soft water by a temperature sensor and a flow meter for sensing temperature and flux of supply raw water. The regeneration is automatically prosecuted by a control part having a microprocessor. The cold/hot water softener serves a user's convenience in that sudden change of temperature is prevented.